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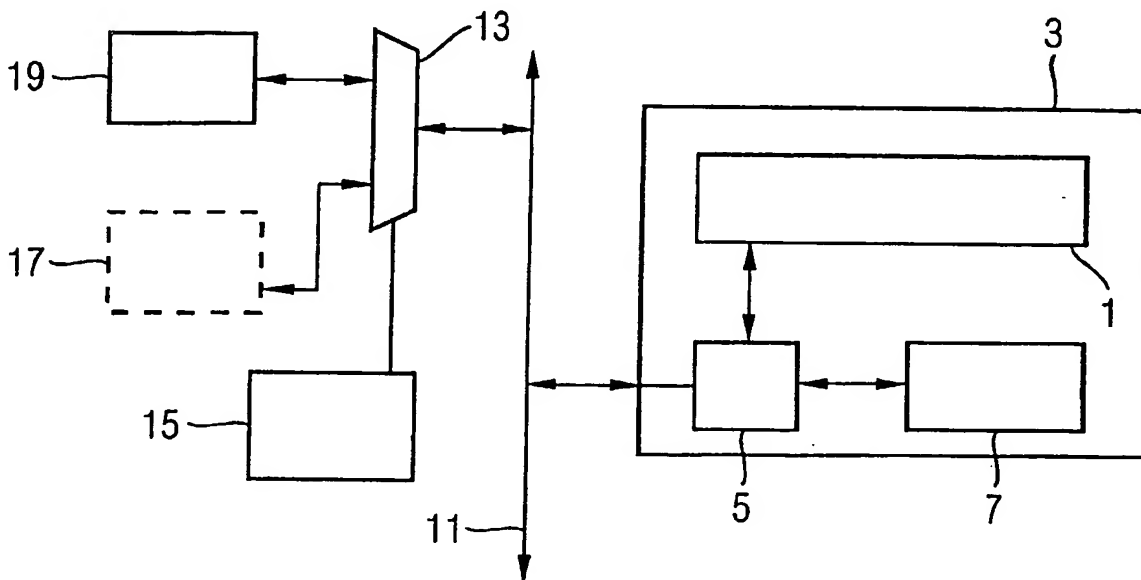
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(54) Title: METHODS FOR OPERATING A CPU HAVING AN INTERNAL DATA CACHE



(57) **Abstract**—A CPU 3 having a processor 1 and an internal data cache 7 IS operated in combination with a dummy interface 13 which simulates the existence of an external memory 17 having the same address space as the cache memory 7 but which does not store data written to it. In this way, a conventional CPU can be operated without read/write access to an external memory in respect of at least part of its memory address space, and therefore with a higher performance resulting from faster memory access and reduced external memory requirements. The CPU 3 may be one of a set of CPU chips 20, 21 in a data processing system, one or more of those chips 20 optionally having read/write access to an external memory 23.

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